Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

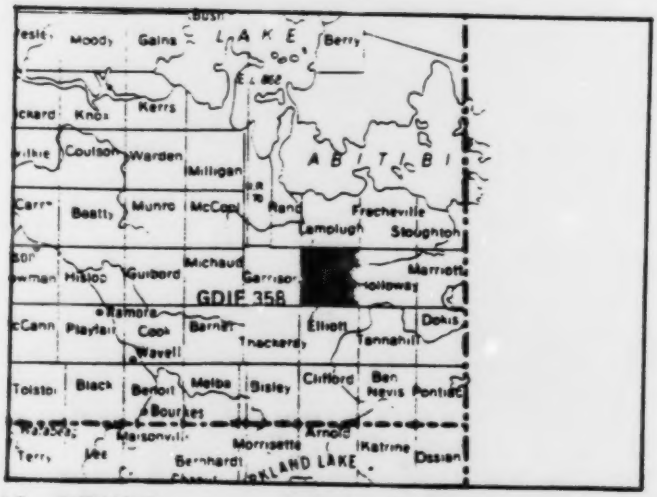
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 358

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the Staff of
the Residents Geologist's Office
Kirkland Lake



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 32D/05

Mining Claim Map Number G-3643

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows

Ontario Geological Survey
1987: Harker Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio 358 compiled by the staff of the Resident Geologist's Office, Kirkland Lake, 63 p. and 3 maps.

Original Compilation by: Kamal Kalicharran and B.J. Westin, November 14, 1986

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map 2 Map
Exploration Data Map 1 Map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0 035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp	1 pound (avdp	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ton (short)	1 ounce (troy)/ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ton (short)	1 pennyweight/ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	NDC
2	Assessment Files Research Office, Toronto	YES	NDC
3	ODM General Index; 9 volumes	YES	NDC
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	NDC
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	NDC
6	ODM Industrial Mineral Reports	YES	NDC
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	NDC
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	NDC
9	Newspaper Clippings File	YES	NDC
10	GSC Index to Publications	YES	NDC
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	NDC
12	OGS Index Maps	YES	NDC
13	Source Mineral Deposit Records (O.G.S.)	NO	NDC
14	Author - Subject Articles File	YES	NDC
15	Miscellaneous Papers: ODM & OGS	YES	NDC
16	ODM Geological Circulars: OGS Study Series	NO	NDC
17	ODM Preliminary Reports: ODM Bulletins	NO	NDC
18	ODM – OGS Open File Reports	YES	NDC
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	NDC
20	OGS Aggregate Resources Inventory Papers	NO	NDC
21	OGS Mineral Potential Maps	NO	NDC

METALS AND MINERALS REFERENCES LIST

Δ anh. . . . . Anhydrite	Δ lu. . . . . Lucite	Δ Ni. . . . . Nickel	Δ st. . . . . Stone
▲ ank. . . . . Ankerite	▲ ga. . . . . Galena	Δ Nb. . . . . Niobium	Δ talc. . . . . Talc
Δ anna. . . . . Annabergite	▲ gt. . . . . Garnet	Δ Pd. . . . . Palladium	Δ Te. . . . . Tellurium
Δ ap. . . . . Apatite	Δ goe. . . . . Goethite	Δ peat. . . . . Peat	Δ td. . . . . Tetrahedrite
Δ arg. . . . . Argentite	▲ Au. . . . . Gold	Δ pent. . . . . Pentlandite	Δ th. . . . . Thorite
Δ As. . . . . Arsenic	▲ gl. . . . . Graphite	Δ Pt. . . . . Platinum	Δ Th. . . . . Thorium
Δ asp. . . . . Arsenopyrite	Δ gl. . . . . Gravel	▲ py. . . . . Pyrite	Δ thoc. . . . . Thocholite
▲ asb. . . . . Asbestos	▲ gyp. . . . . Gypsum	Δ pyl. . . . . Pyrochlore	Δ ti. . . . . Titanite
Δ ba. . . . . Barite	▲ hem. . . . . Hematite	Δ pyrl. . . . . Pyrolusite	Δ Ti. . . . . Titanium
Δ be. . . . . Beryl	Δ il. . . . . Ilmenite	▲ po. . . . . Pyrrhotite	Δ tour. . . . . Tourmaline
Δ Bi. . . . . Bismuth	▲ Fe. . . . . Iron	▲ q. . . . . Quartz	Δ trap. . . . . Trap rock
Δ bn. . . . . Bornite	▲ IF. . . . . Iron Formation	▲ qcv. . . . . Quartz carbonate vein	Δ W. . . . . Tungsten
Δ bran. . . . . Brannerite	▲ jas. . . . . Jasper	Δ ra. . . . . Radioactive minerals	Δ uran. . . . . Uraninite
Δ bruc. . . . . Brucite	Δ kaol. . . . . Kaolinite (kaolin)	Δ RE. . . . . Rare Earths	Δ U. . . . . Uranium
Δ Cd. . . . . Cadmium	Δ ky. . . . . Kyanite	Δ sd. . . . . Sand	Δ verm. . . . . Vermiculite
▲ calc. . . . . Calcite	▲ Pb. . . . . Lead	Δ sgl. . . . . Sand and gravel	Δ Y. . . . . Yttrium
▲ carb. . . . . Carbonate	Δ lun. . . . . Lunomite	Δ ss. . . . . Sandstone	▲ Zn. . . . . Zinc
Δ cel. . . . . Celestite	Δ Li. . . . . Lithium	Δ scap. . . . . Scapolite	Δ zr. . . . . Zircon
Δ cc. . . . . Chalcocite	Δ mgst. . . . . Magnesite	Δ shee. . . . . Scheelite	
▲ cp. . . . . Chalcopyrite	▲ mag. . . . . Magnetite	▲ serp. . . . . Serpentine	
▲ ch. . . . . Chert	Δ mc. . . . . Malachite	Δ sh. . . . . Shale	
Δ clay. . . . . Clay	Δ Mn. . . . . Manganese	Δ sid. . . . . Siderite	
Δ Co. . . . . Cobalt	Δ mb. . . . . Marble	Δ si. . . . . Silica	
Δ cob. . . . . Cobaltite	Δ mar. . . . . Marcasite	▲ Ag. . . . . Silver	
Δ cb. . . . . Columbite	Δ ma. . . . . Marl	Δ sl. . . . . Slate	
▲ Cu. . . . . Copper	Δ mi. . . . . Mica	Δ sm. . . . . Smaltite	
Δ cor. . . . . Corundum	Δ ml. . . . . Millerite	Δ sod. . . . . Sodalite	
▲ dol. . . . . Dolomite	▲ mo. . . . . Molybdenite	▲ spec. . . . . Specularite	
▲ ep. . . . . Epidote	Mo. . . . . Molybdenum	▲ sp. . . . . Sphalerite	
Δ ery. . . . . Erythrite	Δ mon. . . . . Monazite	Δ spd. . . . . Spodumene	
Δ fel. . . . . Feldspar	Δ ne. . . . . Nephelite (nepheline)	Δ staur. . . . . Staurolite	
Δ fl. . . . . Fluorite (fluorspar)	Δ nc. . . . . Niccolite	Δ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps, or mentioned either within Mineral Occurrences or the Drillhole Summary.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral - Reports 1	Additional References and/or Remarks
A	Anatole Resources Ltd.	Au	-- --	Resident Geologists Assessment files, Kirkland Lake	2' at 0.23oz/T Au
B	Coin Lake Gold Mines Ltd.	Au,Ag	-- C 0315	ORM 1924, AR33, pt.3, p.46-47 ODM 1951, AR60, pt.7, p.26,27 ODM 1971,MRC13, p.71,72 NMI file 32D/05 Au 10	Best mineralised zone was 200' long, 2.5' wide which averaged 0.25oz/T Au.
C	Consular Harker Mines Ltd.	Au	-- C 0314	ODM 1951, AR60, pt.7 p.27,28 ODM 1971, MRC13, p.130 Resident Geologists Assessmnet files Kirkland Lake	showing exlpored by 173 feet of trenching; gold values up to 0.18oz/T Au
D	Demers, G.	Au	-- --	ODM Map 1951-4 ODM 1951, AR60, pt.7 p.29-30 ODM 1971, MRC13, p.30	Carbonatised greywacke contains quartz-carbonate stringers and has been explored by pits.Grab sample assayed 0.01oz/T Au
E	Graham, A.R. and Bellingham	Au	-- --	ODM 1951, AR60, pt.7 p.25,26 ODM Map 1951-4	Grab samples taken of well-mineralised material from the main showing gave 0.01oz/T Au

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral - Reports	Additional References and/or Remarks
F	Harley, N.	Au	--	Resident Geologists Assessment files Kirkland Lake	0.7' @ 0.02oz/T Au. Basalt is highly altered and brecciated some silicification, with pyrite mineralisation.
G	Harlight Gold Mines Ltd.	Au	-- C 0221	ODM 1951, AR60, pt.7 p.33,34 ODM 1971 MRC13,p.72,73 NMI file 32D/05 Au8	Gold content averaged 0.14 oz/T over an average width of 6'
H	Harker Gold Mines Ltd.	Au,Pb,Cu	-- C 0318	ODM 1951, AR60, pt.7 p.30-33 ODM 1971, MRC13, p.72 NMI file 32D/05 Au9	Assay plans of No.1 vein show average values from 0.1-0.2oz/T Au. Some short sections assayed 0.34oz/T Au.
I	Imperial Reserve Mines Ltd.	Au	-- C 0317	ODM 1951, AR60, pt.7 p.35 ODM 1971, MRC13, p.130	Zones 8-10' wide assaying up to 0.06oz/T Au. Grab sample of pyritised greywacke asssayed up to 0.17oz/T Au
J	Iris Gold Mines Ltd.	Au	-- C 0316	ODM 1951, AR60, pt.7 p.35-36 ODM 1971, MRC13, p.130	Breccia zone of mafic volcanics-felsic volcanics contains py,cp,gn. Assays up to 0.29oz/T over 1.7'.

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MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
K	Lenora Explorations Ltd.	Au	--	Resident Geologist's Assessment files Kirkland Lake	DD #8336 brecciated, chloritised zone with quartz-carbonate stringers gave 2' @ 0.12oz/T Au
L	Lightval Mines Ltd.	Au	--	ODM Map 1951-4 ODM 1951, AR60, pt.7 p.37,38 ODM 1971, MRC13, p.130	A quartz-carbonate zone in greywacke contains pyrite and a trace of gold.
M	Newmex Gold Resources Ltd.	Au	--	Resident Geologist's Assessment files Kirkland Lake	Hole NX-2: avg. 0.175oz/T Au
N	Phelps Dodge Corporation of Canada Ltd. "Grid B"	Au	--	Resident Geologist's Assessment files Kirkland Lake	8 holes with values up to 0.11oz/T Au
O	Amax Exploration Inc. "Joan Group"	Au,Ag	--	Resident Geologist's Assessment files Kirkland Lake	4' wide sheared & fractured zone assayed 0.01oz/T Au.
P	Lenora Exploration Ltd. "Harley Option"	Au	-	Resident Geologist Assessment Files Kirkland Lake	-DDH #NH-85-1, hematized, silicified fragments in heavy quartz flooding 60-70% white quartz, minor chlorite stringers scattered py,cp. 4' gave 0.29oz Au/ton

MINERAL OCCURRENCES

Map Ref Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
P	Lenora Exploration Ltd. (Harley Option)	Au	-	Resident Geologist Assessment Files Kirkland Lake	-DDH # NH-85-3, brecciated zone of hematized quartz flooding 50-60%, 5-10% scattered py. 5' gave 0.38oz Au/ton.
Q	Ontario Cryderman Gold Mines Ltd.	Au	-	Resident Geologist Assessment Files Kirkland Lake	DDH Holes # 1 to 22 have assays between 0.01oz Au/ton to 0.3oz Au/ton.

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Amax Minerals Exploration "Harker-1"	78 79			83				79	79										
2	Amax Minerals Exporation "Harker-2", "Newmex"	78			81							78								
3	Amax Minerals Exploration "Harker-3"	79			82															
4	Amax Minerals Exploration "Harker-4"				81 82															
5	Amax Exploration Inc. "Joan Group"				68															
6	American Yellowknife Gold Mines Ltd. "Rayrock Mines Ltd."	46										46								
7	Anatole Mines Ltd.	73			73															
8	Argentex Resource Exploration Company Ltd.	84		85								84	84							
9	Camflo Mines Ltd. "East Block"											83	83							

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HARKER TOWNSHIP

	TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
	EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
	COMPANY/AUTHOR (file number)																		
10	Camflo Mines Ltd. "Lenora Property"				83														
11	Camflo Mines Ltd. "West Block"				84							84	84						
12	Canadian Johns-Manville Co. Ltd. "Ghost Mountain"	60			61 76							60							
13	Canadian Johns-Manville Co. Ltd. "Deadhorse Creek Grp."	74			74							74	74						
14	Canadian Johns-Manville Co. Ltd. "Northwest Harker"	60			61							60							
15	Canamax Resources Ltd. "Union Option"	82			83								82						
16	Canadian Nickel Co. Ltd. "East Group"								81	81									
17	Carlson, H.D.	82																	
18	Coin Lake Gold Mines Ltd.				45			33 45											
19	Consolidated Mining & Smelting							39											

GDIF FORM NO. 2

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TYPE OF WORK		Numbers below represent the year in which the work was done;e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
	Co. of Canada Ltd. (CMS Syndicate)							40												
20	CMS Syndicate	45			59			41 42 45 58 59												
21	Consular Harker Mines Ltd.				47															
22	Cortez Explorations Ltd.	46 50			46															
23	Dale Gold Mines Ltd. /	46 47			46 47							46								
24	Demers, G.							49												
25	Dixon, C.B. "Group I"											61								
26	Driftex Ltd.											74	74							
27	Golden Harker Exploration Ltd. "Discovery-Lenora jv" "North Group"			84								84								

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
28	Goodfish Mining Company Ltd. (Casco Mines Ltd.)	47		47																
29	Graham, A.R.											46								
30	Graham, A.R. & Bellingham, H.											46								
31	Greenlee Mines Ltd. (New Athona Mines Ltd.)	46										46								
32	Hansen, A.			77	69 74															
33	Harker Gold Mines Ltd. (Golden Harker Expl. Ltd.)	24					28 29	29 34 47												
34	Harley, N.				84 85	85						82	82							
34A	Harley, N. "Harley 2 Claims"				86	86						85		85						
35	Harlight Gold Mines Ltd.				47			45 46 47												

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
36	Hofmann, C.E.	50			49 55							49 50								
37	Hunch Mines Ltd. "West Group"				62			61												
38	Hurd, D.F.			82 84	85						82	82		83						
39	Imperial Reserve Mines Ltd.	29		35				47 48 50												
40	Independant Mining Co. Ltd.				83			47				81	81							
41	Iris Gold Mines Ltd.	47		47																
42	Johns-Manville Canada Inc. "Harker Lake East Grp."											82	82							
43	Johns-Manville Canada Inc. "Harker Lake West Grp."	85			85							81	81							
44	Jonpol Explorations Ltd.	84										85	85 86							

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EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
45	Kasner, R.											80	80							
46	Kerr Addison Mines Ltd.	84										84	84							
47	Lenora Exlporations Ltd.				83															
48	Lightval Mines Ltd.	47			46 47	47		47 51				47								
49	Lynx-Canada Explorations Ltd.											84	84							
50	McRae											45								
51	Mining Corp. of Canada Ltd.							22												
52	Naybob Gold Mines Ltd.*							43 44												
53	Neal, H.E.	82																		
54	Newmex Gold Resources Inc.				75	75						75	75							
55	Northland Mines Ltd.	46										46								
56	Ontario Cryderman Gold Mines Ltd.			40	41			37 40 49												

*No property boundaries shown in file.

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TYPE OF WORK		Numbers below represent the year in which the work was done;e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	GRADIOMETER		
COMPANY/AUTHOR (file number)																				
57	Perrex Resources Inc.											84								
58	Perron, A.H.	84	83	83 84														83		
59	Perron, A.H. "Harker Group 2"	83		84																
60	Phelps Dodge Corp. of Canada Ltd. "Grid A"	81			82								81							
61	Phelps Dodge Corp. of Canada Ltd. "Grid B"	81			81 82								81							
62	St. Anthony Mines Ltd.											46								
63	Sciminex Ltd.	73	72					72												
64	Shunsby, M.T.				65															
65	Teddy Bear Valley Mines Ltd.	35 47			35			24 25 39												
66	Three Brothers Mining Exploration Ltd.	60										60								

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GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
67	Tumac Mining & Development Co.	59		59	59 60															
68	Union Mining Corp.											81	81							
69	Valhalla Mines Ltd.			62	61 63															
70	Kerr Addison Mines Ltd. "Neal Property"	84			84							84	84							
71	Perrex Resources Inc. "Airborne Group"											85	85							
72	Perrex Resources Inc. "Duncan Claim Group"	84																		
73	Perron, A.H. "Elliott North Group"	84										85	85							
74	Perron, A.H. "Iris 2 North"	85																		
75	Perrex Resources "Ghost Lake Area"								85	85										

HARKER TOWNSHIP

TYPE OF WORK		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		Numbers below represent the year in which the work was done;e.g., 68 for 1968.																	
	COMPANY/AUTHOR (file number)																		
76	Perrex Resources "Ghost River Area"								85	85									
77	Sherritt Gordon Mines Ltd. "Harker Twp"								85	85									
78	American Barrick Resources "West Block" (see also Camflo "West Block")				86				85	85									

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Amax Minerals Exploration "Harker 1"	010-39-16	07/83	5°	-45°	78'	169'	py,gf,po,qcv,cp	--
2	Amax Minerals Exploration "Harker 2", "Newmex"	DDH 8	08/81	0°	-45°	10'	178'	py,qcv,sp,Au	--
3	" "	839-24-4†	06/81	340°	-55°	2.5'	275'	ep,py,carb,cp	--
4	" "	839-24-5†	06/81	0°	-45°	10.5'	285'	carb,py,ep,hem, gt,qcv,ch	--
5	" "	839-24-6†	08/81	0°	-45°	34'	335'	py,carb,po	--
6	" "	839-24-7†	08/81	0°	-45°	17'	177'	py,ch,mag,qcv	--
7	" "	839-24-1†	06/81	0°	-50°	121'	432'	qcv,py,po,ank,ep	--
8	" "	839-24-2†	06/81	0°	-45°	12'	236'	py,po,qcv,hem	--
9	Amax Minerals Exploration "Harker 3"	839-31-3†	06/82	0°	-45°	96'	610'	qcv,py,ep,IF, mag,spec,hem,gf	--
10	" "	839-31-4†	06/82	0°	-45°	70'	462'	qcv,py,hem,spec	--
11	" "	839-31-2†	11/81	0°	-45°	112'	326'	py,carb,ch	--
12	" "	839-31-1†	11/81	0°	-45°	89'	657'	py,ch,qcv,gf	--
13	Amax Minerals Exploration "Harker 4"	839-39-1†	06/81	0°	-50°	76'	612'	py,ep,qcv,calc	--
14	" "	839-39-2†	06/81	180°	-50°	126'	581'	py,qcv,ank,hem	--

† - Core stored at Swastika Drill Core Storage Library
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xx - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
15	Amax Minerals Exploration "Harker 4"	839-39-3†	06/81	180°	-50°	53'	433'	qcv,py,dol,jas, mag	--
16	" "	839-39-4	07/81	0°	-50°	68'	502'	py,qcv,ank,mag	--
17	" "	839-39-5	09/81	0°	-50°	85'	551'	qcv,py,ch	--
18	" "	839-39-6	09/81	0°	-45°	30'	472'	py,qcv	--
19	" "	839-39-7	10/81	180°	-50°	11'	472'	qcv,py,ank	--
20	" "	839-39-8	10/81	180°	-50°	114'	518'	py,qcv,IF,spec	--
21	" "	839-39-9	10/81	180°	-50°	30'	315'	py,IF,hem,cp,ch	--
22	" "	839-39-10	11/81	0°	-50°	77'	571'	ep,py,hem,qcv, IF,jas	--
23	" "	839-39-11	05/82	180°	-45°	75'	230'	--	--
24	" "	839-39-12	05/82	0°	-45°	192'	328'	py,qcv	--
25	" "	839-39-13	05/82	180°	-50°	96'	538'	py,spec,IF,hem, mag,qcv	--
26	" "	839-39-14	05/82	180°	-45°	54'	522'	py,mag,IF,hem,ep	--
27	" "	839-39-15	09/82	0°	-50°	138'	550'	py,jas,mag,IF, qcv	--

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GDIP FORM NO.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
28	Amax Exploration Inc. "Joan Group"	KX27-68	01/68	328°	-48°	104'	730'	Au, Ag, Cu	
29	" "	KX-28-68	01/68	328°	-45°	159'	667'	py,gf,qcv	--
30	Anatole Resources Ltd.	1	06/73	0°	-60°	110'	912'	qcv,ep,py,gyp	--
31	" "	2	06/73	0°	-60°	58'	714'	py,ep,mag,cp	Au 0.23oz/T
32	" "	3	06/73	0°	-50°	36'	721'	py,qcv,mag,ep	--
33	American Barrick Resources "Lenora Property"	MC-85-257	09/85	342°	-60°	22.56m	255.7m	py,qcv,qtz	Au
34	American Barrick Resources "West Block"	MC-86-259	01/86	375°	-50°	19.40m	256.3m	py,qcv	Au
35	Camflo Mines Ltd. "Lenora Property"	Mc-83-37	08/83	344°	-65°	52'	451'	py,cp,qcv,ep	--
36	" "	Mc-83-38	08/83	344°	-45°	85'	351'	py,ep,hem,cp	--
37	" "	Mc-83-39	08/83	344°	-45°	5'	301'	cp,py,qcv	--
38	Camflo Mines Ltd. "West Block"	Mc-84-70	06/84	0°	-50°	62'	789'	py,cp,po	--
39	Canadian Johns-Manville Co. Ltd. "Ghost Mountain"	H-76-1	05/76	--	-90°	79'	353'	mag,py,qcv,asb	--

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
40	Canadian Johns-Manville Co. Ltd. "Ghost Mountain"	G.M.#1	05/61	216°	-45°	8'	650'	py,qcv,ash,serp	--
41	" "	G.M.#2	05/61	217'	-45°	33'	600'	mag,py,qcv,ash	--
42	" "	G.M.#3	05/61	190°	-45°	25'	651'	py,mag,qcv,ash, serp	--
43	" "	G.M.#4	06/61	175°	-45°	27'	653'	py,qcv,mag,ash	--
44	Canadian Johns-Manville Co. Ltd. "Deadhouse Creek Grp."	H-74-1	01/74	180°	-60°	109'	423'	cp,py,qcv,sp,gn po,gt	--
45	Canadian Johns-Manville Co. Ltd. "Northwest Harker"	N.W.H.#1	06/61	180°	-45°	134'	503'	py,hem,cp	--
46	Canamax Resources Inc. "Union Option"	010-44-1	03/83	180°	-45°	145'	606'	py	--
47	" "	010-44-2	03/83	180°	-45°	16'	594'	py,hem,qcv	--
48	" "	010-44-3	03/83	180°	-45°	42'	689'	py,spec,hem	--
49	" "	010-44-4	03/83	0°	-45°	19'	236'	ank,qcv,py	--
50	" "	010-44-5	07/83	180°	-50°	42'	669'	py,mag	--
51	" "	010-44-6	07/83	180°	-45°	69'	433'	py,gf,qcv,	--
52	" "	010-44-7	07/83	180°	-45°	46'	561'	py,carb	--

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GDIP FORM NO.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
53	Canamax Resource Inc. "Union Option"	010-44-8	07/83	180°	-45°	17'	415' f	py,carb	--
54	" "	010-44-9	07/83	180°	-45°	26'	344'	py,carb,mag	--
55	Coin Lake Gold Mines Ltd.	No.1	04/45	5°	-45°	10'	334'	py,qcv	Au 0.23oz/T
56	" "	No.2	05/45	345°	-45°	10'	135'	py	Au 0.2oz/T
57	" "	No.3	05/45	345°	-45°	4'	150'	py	Au 0.94oz/T
58	" "	No.4	05/45	345°	-45°	6'	173'	py,ep,qcv	Au
59	" "	No.5	05/45	0°	-45°	25'	164'	py	Au 0.06oz/T
60	" "	No.6	05/45	0°	-45°	7'	154'	py	Au 0.05oz/T
61	" "	No.7	05/45	180°	-40°	9'	126'	py	Au 0.01oz/T
62	" "	No.8	05/45	180°	-45°	10'	137'	py	--
63	" "	No.9	06/45	180°	-45°	10'	144'	py	Au 0.01oz/T
64	" "	No.10	06/45	180°	-45°	3'	142'	--	--
65	" "	No.11	06/45	0°	-45°	7'	65'	--	--
66	" "	No.12	06/45	180°	-45°	4'	168'	--	--
67	" "	No.13	06/45	180°	-53°	5'	148'	--	--

f - Core stored at Swastika Drill Core Storage Library
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ODIP FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
68	Coin Lake Gold Mines Ltd.	No.14	06/45	090°	-45°	0'	171'	--	--
69	" "	No.15	06/45	355°	-65°	8'	343'	py,ep,	Au 0.43oz/T
70	" "	No.16	07/45	355°	-65°	5'	325'	py	Au 0.03oz/T
71	" "	No.17	07/45	0°	-45°	0'	115'	py	Au 0.67oz/T
72	" "	No.18	08/45	355°	-65°	5'	325'	py	Au 0.06oz/T
73	C.M.S. Syndicate	P#1	1959	050°	-45°	0'	140'	qcv,ep,hem,py	--
74	" "	P#2	1959	330°	-45°	0'	148.5'	py,qcv,hem	--
75	" "	P#3	1959	145°	-35°	0'	117.5'	qcv	--
76	" "	P#4	1959	215°	-45°	0'	87'	qcv,py	--
77	" "	A1	03/59	340°	-45°	17'	346'	qcv,py	--
78	" "	A2	03/59	340°	-45°	93'	354'	qcv,ep,py,gn,hem	--
79	" "	A3	03/59	0°	-45°	81'	350'	py,qcv,hem	--
80	" "	A4	04/59	0°	-45°	17'	240'	cp,py,qcv	--
81	" "	A5	04/59	345°	-45'	34'	347'	py,qcv,ep	--
82	" "	A6	04/59	0°	-55°	37'	210'	py,qcv	--

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GDIP FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
83	C.M.S. Syndicate	A7	04/59	0°	-55°	9'	284'	py,qcv	--
84	" "	A8	04/59	0°	-55°	11'	248'	py,qcv	--
85	" "	A9	06/59	--	-50°	13'	317'	carb,ep,py	--
86	" "	#5	07/59	0°	-50°	0'	105'	py	--
87	" "	#6	08/59	180°	-25°	0'	105'	py	--
88	" "	#7	08/59	0°	-45°	0'	155'	py,qcv	--
89	" "	PDH#8	09/59	350°	-55°	0'	150'	py,qcv	--
90	" "	#8	11/59	340°	-45°	0'	160'	py,qcv	--
91	" "	PDH#9	10/59	190°	-35°	0'	160'	--	--
92	" "	#9	11/59	125°	-30'	0'	165'	--	--
93	" "	#10	10/59	020°	-50°	0'	60'	py,spec	--
94	" "	#11	10/59	020°	-45°	0'	150'	py,spec	--
95	" "	#12	10/59	045°	-55°	0'	170'	py,spec	--
96	" "	#13	10/59	0°	-45°	0'	50'	--	--

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
97	Consular Harker Mines Ltd.	1	07/47	170°	-42°	1'	125'	ep	--
98	" "	2	07/47	190°	-37°	1'	131'	py,qcv,ep	--
99	" "	3	08/47	150°	-35°	2'	151'	py,ep,qcv	--
100	" "	4	08/47	160°	-45°	2'	145'	py,qcv	--
101	" "	5	08/47	190°	-30°	1'	145'	py,qcv	--
102	" "	6	09/47	170°	-30°	1'	130'	py,qcv	--
103	" "	7	09/47	350°	-45°	2'	150'	py,qcv	--
104	Cortez Explorations Ltd.	1	02/46	0°	-45°	--	25'	--	--
105	" "	2	03/46	045°	-45°	50'	607'	--	--
106	" "	3	03/46	225°	-45°	29'	499'	--	--
107	" "	4	04/46	315°	-45°	30'	992'	--	
108	Dale Gold Mines Ltd.	#1	09/46	0°	-30°	11'	504'	--	--
109	" "	#2	10/46	125°	-45°	39'	757'	py,mo,qcv,serp	--
110	" "	#3	11/46	125°	-45°	65'	1179'	py	--
111	" "	#4	12/46	135°	-45'	80'	1206'	spec,qcv	--

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OGIP FORM NO.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
112	Dale Gold Mines Ltd.	#5	02/47	125°	-50°	170'	565'	py,serp	--
113	" "	#7	03/47	325°	-45°	35'	805'	--	--
114	Hansen, A.	DDH 1	10/74	135°	--	0'	109'	--	--
115	"	DDH 2	10/74	170°	--	0'	103'	--	--
116	"	DDH 3	10/74	325°	--	0'	101'	--	--
117	"	DDH 4	10/74	345°	--	0'	102'	--	--
118	"	1	07/69	244°	-50°	0'	132'	py,ep,gn,cp,qcv	--
119	"	2	07/69	010°	-40°	0'	130'	qcv,py,gn,cp	--
120	"	3	07/69	135°	-40°	0'	110'	--	--
121	"	4	07/69	333°	-45°	0'	110'	py,cp,qcv	--
122	"	NH-84-1	07/84	0°	-50°	112'	385'	py,qcv,po,asb	Au 0.02oz/T
123	"	NH-84-2	07/84	0°	-50°	104'	433'	py,qcv	Au
124	"	NH-84-3	07/84	0°	-50°	10'	345'	py,qcv,ep,mag	Au
125	"	NH-84-4	07/84	0°	-45°	17'	348'	qcv,py,po,ep	Au

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GDIP FORM NO.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
126	Harley, N. "Harley 2 claims"	HH-1-86	05/86	0°	-45°	115'	495'	py,qtz,qcv,epi mg	Au
127	"	HH-2-86	05/86	0°	-55°	62'	386'	cp,sph,gf,py graphite, qcv	Au
128	"	HH-3-86	05/86	0°	-60°	80'	421'	py,epi,qcv,po	Au
129	Harley, N. (see: Lenora Expl., "Harley Option")	NH-85-1	11/85	330°	-50°	175'	507'	qcv,py,cpy,ser	Au 0.29oz/T
130	"	NH-85-2	11/85	330°	-50°	133'	133'	--	-
131	"	NH-85-2c	11/85	330°	-60°	196'	517'	qtz,qcv	
132	"	NH-85-3	11/85	330°	-55°	130'	557'	qtz,py,qcv	Au 0.38oz/T
133	Harlight Gold Mines Ltd.	No.3	1947	116°	-45°	185'	1070'	--	--
134	Hoffman, C.E.	No.1	1949	175°	-45°	0'	346'	serp	--
135	" "	No.2	1949	157°	-45°	0'	257'	serp	--
136	" "	No.3	1949	358°	-45°	5'	346'	serp	--
137	" "	No.4	1949	0°	-31°	5'	76'	--	--
138	" "	No.5	1949	358°	-35°	3'	132'	serp,asb	--

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OGDP FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
139	Hoffman, C.E.	No.6	1949	358°	-30°	5'	305'	serp,mag	--
140	" "	No.7	1949	--	--	0'	53'	asb	--
141	" "	No.8	1949	358°	-28°	3'	119'	serp	--
142	" "	No.9	1949	358°	-30°	4'	157'	serp	--
143	" "	No.10	1949	358°	-30°	3'	102'	serp,mag	--
144	" "	No.11	1949	358°	-30°	5'	274'	qcv,ep	--
145	" "	No.12	1949	351°	-45°	5'	401'	qcv,ep	--
146	" "	No.13	1949	030°	-45°	5'	355'	qcv,ep	--
147	" "	No.1	07/55	180°	-45°	6'	504'	serp,asb,ep	--
148	" "	No.2	07/55	180°	-45°	3'	499'	serp,asb	--
149	" "	A	1949	358°	5°-15°	2'	12'	asb	--
150	" "	B	1949	358°	5°-15°	1'	12'	asb	--
151	" "	C	1949	358°	5°-15°	4'	13'	asb	--
152	" "	D	1949	358°	5°-15°	1'	6'	asb	--

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
153	Hoffman, C.E.	E	1949	358°	5°-15°	1'	13'	asb	--
154	" "	F	1949	358°	5°-15°	4'	11'	asb	--
155	" "	G	1949	358°	5°-15°	0'	16'	asb	--
156	" "	H	1949	358°	5°-15°	5'	17'	asb	--
157	" "	I	1949	358°	5°-15°	1'	17'	asb	--
158	" "	J	1949	358°	5°-15°	0'	15'	asb	--
159	" "	K	1949	358°	5°-15°	0'	20'	asb	--
160	Hurd, D.F.	272-85-9	08/85	335°	-45°	36'	245'	qcv,py,hem	Au,Cu,Pb
161	Johns Manville Canada "Harker Lake West Grp."	HL-85-1	05/85	350°	-45°	0'	108'	py,qv	
162		HL-85-2	05/85	180°	-45°	0'	109'	qv,py	
163	" "	HL-85-3	05/85	185°	-50°	0'	105'	qv,py	
164	" "	HL-85-4	05/85	330°	-45°	0'	124'	qv,py,cpy	
165	" "	HL-85-5	06/85	330°	-45°	0'	123'	qv,py,po,cpy	
166	Lightval Mines Ltd.	No.1	1946	135°	-50°	15'	325'	ep,py,mag,cp	--
167	" "	No.2	1947	350°	-43°	5'	747'	py,ep,qcv,gf	--

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GDIP FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
168	Lightval Mines Ltd.	No.5	1947	0°	-40°	20'	803'	ep,calc,qcv,py	--
169	" "	No.6	1947	020°	-55°	12'	1000'	py,qcv,gf	--
170	" "	No.7	1947	020°	-65°	9'	1000'	py,gf,qcv,ch	--
171	" "	No.8	1947	0°	-45°	14'	700'	ch,qcv,gf	--
172	" "	No.9	1947	0°	-55°	10'	325'	--	--
173	" "	No.10	1947	0°	-45°	0'	575'	qcv	--
174	" "	No.11	1947	180°	-55°	6'	295'	qcv,gf,ch,cp	--
175	" "	No.12	1947	180°	-50°	9'	725'	ep,py,spec,cp	--
176	Newmex Gold Resources Inc.	NX-1	10/75	180°	-45°	32'	217'	py,cp,qcv,gf	0.02oz/T Au
177	" "	NX-2	10/75	0°	-45°	13'	247'	ch,py,qcv,gf	0.23oz/T Au
178	" "	NX-3	10/75	0°	-45°	13'	267'	py,mag,ep,hem, qcv	0.02oz/T Au
179	" "	NX-4	10/75	0°	-45°	10'	250'	gf,qcv,ep,py	0.05oz/T Au
180	" "	NX-5	10/75	180°	-45°	42'	507'	py	--
181	Ontario Cryderman Gold Mines Ltd.	No.1	1941	335°	-60°	--	75'	--	0.08oz/T Au
182	" "	No.2	1941	335°	-60°	--	71'	--	0.08oz/T Au

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
183	Ontario Cryderman Gold Mines Ltd.	No.3	1941	335°	-60°	--	62'	--	0.25oz/T Au
184	" "	No.4	1941	335°	-60°	--	65'	--	0.07oz/T Au
185	" "	No.5	1941	335°	-60°	--	64'	--	0.24oz/T Au
186	" "	No.6	1941	335°	-60°	--	68'	--	0.14oz/T Au
187	" "	No.7	1941	335°	-60°	--	78'	--	0.02oz/T Au
188	" "	No.8	1941	335°	-60°	--	86'	--	0.04oz/T Au
189	" "	No.9	1941	335°	-60°	--	78'	--	0.09oz/T Au
190	" "	No.11	1941	335°	-60°	--	83'	--	0.32oz/T Au
191	" "	No.12	1941	335°	-60°	--	116'	--	0.1oz/T Au
192	" "	No.13	1941	335°	-45°	--	157'	--	0.09oz/T Au
193	" "	No.14	1941	335°	-45°	--	174'	--	0.01oz/T Au
194	" "	No.15	1941	335°	-45°	--	178'	--	0.02oz/T au
195	" "	No.16	1941	335°	-45°	--	198'	--	0.11oz/T Au
196	" "	No.17	1941	335°	-45°	--	174'	--	0.06oz/T au
197	" "	No.18	1941	335°	-45°	--	185'	--	0.25oz/T Au

† - Core stored at Sweetike Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

GDIP FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole †	Mineralization Noted in Log	Assay Data Included for
198	Ontario Cryderman Gold Mines Ltd.	No.19	1941	335°	-45°	--	184'	--	0.3oz/T Au
199	" "	No.20	1941	335°	-45°	--	167'	--	0.11oz/T Au
200	" "	No.21	1941	335°	-45°	--	177'	--	0.17oz/T Au
201	" "	No.22	1941	335°	-45°	--	167'	--	trace
202	Phelps Dodge Corp. of Canada Ltd. "Grid A"	160-5	01/82	210°	-50°	120'	120'	--	--
203	Phelps Dodge Corp. of Canada Ltd. "Grid B"	160-1	12/81	310°	-50°	25'	448'	py,qcv,gn,ep,gf	0.03oz/T Au
204	" "	160-2	12/81	310°	-50°	22'	335'	py,qcv,ep,gf	0.03oz/T Au
205	" "	160-3	01/82	310°	-50°	12'	596'	py,cp,qcv,spec, ep,gf	0.05oz/T Au
206	" "	160-4	01/82	310°	-50°	98'	393'	py,cp,qcv,hem	Au
207	" "	160-6	01/82	310°	-50°	14'	351'	py,hem,ep,spec, cp	0.11oz/T Au
208	" "	160-7	12/81	310°	-50°	36'	457'	py,gf,qcv,hem	--
209	" "	160-8	02/82	310°	-50°	48'	346'	py,qcv,ep	0.08oz/T Au
210	" "	160-9	02/82	310°	-50°	30'	335'	py,qcv,mag,ep,gt	0.02oz/T Au

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* - Length of Overburden down drill hole
xx - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
211	Shunsby, M.T.	No. 2	05/65	45°	-45°	3'	110' †	py	--
212	" "	No. 3	05/65	225°	-45°	3'	112'	py	--
213	Teddy Bear Valley Mines Ltd.	No.16	10/35	0°	-75°	--	602'	--	--
214	Tumac Mining & Devel. Co.	59-1	10/59	0°	-55°	5'	109'	qcv,ep	--
215	" "	59-2	11/59	--	-90°	3'	102'	qcv,ep	--
216	" "	DDIH	10/60	210°	-65°	0'	404'	gn,py,calc	--
217	Valhalla Mines Ltd.	13	07/61	0°	-50°	3'	225'	py,qcv	--
218	" "	14	07/61	0°	-60°	3'	215'	py,qcv	--
219	" "	15	07/61	180°	-35°	4'	115'	py	--
220	" "	16	07/61	340°	-55°	3'	200'	ch,py	--
221	" "	17	07/61	0°	-50°	3'	250'	ch	--
222	" "	18	08/61	0°	-50°	4'	250'	qcv,py	--
223	" "	19	08/61	0°	-50°	4'	250'	--	--
224	" "	20	08/61	0°	-60°	4'	110'	qcv,py	--
225	" "	21	08/61		-90°	0'	115'	--	--
226	" "	22	09/61	0°	-50°	3'	160'	qcv,py	--

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* - Length of Overburden down drill hole
xx - No date

GSIP FORM NO.

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
227	Valhalla Mines Ltd.	23	09/61	180°	-45°	0'	50'	py,mag,qcv	--
228	" "	24	09/61	180°	-45°	0'	52'	py	--
229	" "	25	09/61	180°	-45°	0'	50'	py	--
230	" "	26	10/61	180°	-45°	0'	53'	py,qcv	--
231	" "	27	10/61	--	-90°	125'	125'	--	--
232	" "	28	10/61	--	-90°	104'	110'	--	--
233	" "	27a	06/63	180°	-45°	0'	110'	--	--
234	" "	28a	06/63	180°	-35°	0'	120'	qcv,py	--
235	Kerr Addison Mines Ltd. "Neal Property"	NH-84-01	11/84	--	-90°	58'	59'	--	Au,Pb,Zn Cu
236	" "	NH-84-02	11/84	--	-90°	64'	65'	--	Au,Pb,Zn Cu
237	" "	NH-84-03	11/84	--	-90°	20'	21'	--	Au,Pb,Zn Cu
238	" "	NH-84-04	11/84	--	-90°	46'	47'	py	Au,Pb,Zn Cu
239	" "	NH-84-05	11/84	--	-90°	89'	92'	--	Au,Pb,Zn,Cu
240	" "	NH-84-06	11/84	--	-90°	88'	89'	py	Au,Pb,Zn,Cu
241	" "	NH-84-07	11/84	--	-90°	56'	57'	--	Au,Pb,Zn,Cu

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
242	Kerr Addison Mines Ltd. "Neal Property"	NH-84-08	11/84	--	-90°	- 40'	45'	py	Au,Pb,Zn,Cu
243	" "	NH-84-09	11/84	--	-90°	32'	35'	py	Au,Pb,Zn,Cu
244	" "	NH-84-10	11/84	--	-90°	25'	26'	py	Au,Pb,Zn,Cu
245	" "	NH-84-11	11/84	--	-90°	31'	32'	--	Au,Pb,Zn,Cu
246	" "	NH-84-12	11/84	--	-90°	34'	35'	py	Au,Pb,Zn,Cu
247	" "	NH-84-13	11/84	--	-90°	151'	152'	py	Au,Pb,Zn,Cu
248	" "	NH-84-14	11/84	--	-90°	36'	37'	py	Au,Pb,Zn,Cu
249	" "	NH-84-15	11/84	--	-90°	43'	44'	py	Au,Pb,Zn,Cu
250	" "	NH-84-16	11/84	--	-90°	56'	57'	py	Au,Pb,Zn,Cu
251	" "	NH-84-17	11/84	--	-90°	98'	99'	py	Au,Pb,Zn,Cu
252	" "	NH-84-18	11/84	--	-90°	80'	82'	py,po	Au,Pb,Zn,Cu
253	" "	NH-84-19	11/84	--	-90°	189'	189'	hole abandoned	Au,Pb,Zn,Cu
254	" "	NH-84-20	11/84	--	-90°	46'	50'	py,po	Au,Pb,Zn,Cu
255	" "	NH-84-21	11/84	--	-90°	111'	116'	py	Au,Pb,Zn,Cu
256	" "	NH-84-22	11/84	--	-90°	143'	146'	py	Au,Pb,Zn,Cu

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* - Length of Overburden down drill hole
xx - No data

GDIP FORM NO. 1

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
257	Kerr Addison Mines Ltd. "Neal Property"	NH-84-23	11/84	--	-90°	171'	177'	py,po	Au,Pb,Zn,Cu
258	" "	NH-84-24	11/84	--	-90°	189'	189'	--	Au,Pb,Zn,Cu
259	" "	NH-84-25	11/84	--	-90°	37'	38'	mag	Au,Pb,Zn,Cu
260	" "	NH-84-26	11/84	--	-90°	35'	37'	--	Au,Pb,Zn,Cu
261	" "	NH-84-27	11/84	--	-90°	100'	101'	py,po	Au,Pb,Zn,Cu
262	" "	NH-84-28	11/84	--	-90°	55'	56'	mag	Au,Pb,Zn,Cu
263	" "	NH-84-29	11/84	--	-90°	73'	74'	py,ep	Au,Pb,Zn,Cu
264	" "	NH-84-30	11/84	--	-90°	63'	64'	py	Au,Pb,Zn,Cu
265	" "	NH-84-31	11/84	--	-90°	25'	26'	--	Au,Pb,Zn,Cu
266	" "	NH-84-32	11/84	--	-90°	33'	35'	--	Au,Pb,Zn,Cu
267	" "	NH-84-33	11/84	--	-90°	21'	22'	py	Au,Pb,Zn,Cu
268	" "	NH-84-34	11/84	--	-90°	32'	33'	py	Au,Pb,Zn,Cu
269	" "	NH-84-35	11/84	--	-90°	72'	73'	py	Au,Pb,Zn,Cu
270	Hunch Mines Ltd.	No. 6	02/62	135°	-45°	124'	315'	asb	
271	Independent Mining Corp.	IH8301	11/83	0°	-45°	41'	400'	py	Au
272	" "	IH8302	11/83	180°	-45°	26'	401'	qtz,py	Au
273	" "	IH8303	12/83	0°	-45°	104'	472'	py	Au

! - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

GOIF FORM NO. 3

HARKER TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
274	Lenora Explorations Ltd.	Mc 83-36	7/83	344°	-65°	34'	577'	ep.py,q,qcv	Au 0.12oz/T Au 0.05oz/T

! - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

GDIP FORM NO. 1

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Aerodat Ltd.	Electromagnetic (Dual frequency Aerodat/ Perie EM system)	235'	N-S	410'
	Amax Minerals Exploration	Magnetic (Barringer AM-104 proton precession magnetometer)	235'	N-S	410'
16	Canadian Nickel Company Ltd.	Magnetic (Geometrics 803 proton magnetometer)	350-400'	N-S	655'
	Canadian Nickel Company Ltd.	Electromagnetic	350-400'	N-S	655'
75	H. Ferderber Geophysics	Magnetic (GEM GSM 18-BA proton precession)	250'	NW-SE	440'
	Perrex Resources Inc. "Ghost Lake Area"	Electromagnetic VLF-EM Herz Totem 1A (transmitter: Seattle, Washington)			
76	H. Ferderber Geophysics	Magnetic (GEM GSM 18-BA proton precession)	250'	NW-SE	440'
	Perrex Resources Inc. "Ghost River Area"	Electromagnetic VLF-EM Herz Totem 1A (transmitter: Seattle, Washington)			
77	H. Ferderber Geophysics	Magnetic (GEM GSM 18-BA proton precession)	250'	NW-SE	440'
	Sherritt Gordon Mines Ltd. "Harker Twp."	Electromagnetic VLF-EM Herz Totem 1A (transmitter: Seattle, Washington)			
78	Geophysical Surveys Inc.	Electromagnetic Herz Totem 2A	45m	N-S	200m
	American Barrick Res. "West Block"	Magnetic (Cesium vapour magnetometers 0.005 gamma resolution)			

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
58	Humus sampling	Au	Perron, A.H.	Resident Geologist's Assessment files Kirkland Lake
63	Geochemical Biogeochemical	Cu, Pb, Zn, Ag, Cr, Mo, Au	Selminex Ltd.	Resident Geologist's Assessment files Kirkland Lake

GDIF FORM NO.5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

HARKER TOWNSHIP

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Argentex Resources			
	The Northern Miner	Sep. 27, 1984	Sep. 30, 1984
		Sep. 30, 1985	Jan. 03, 1985
		Jul. 21, 1986	
Asbestos Corp.			
	The Northern Daily News	Apr. 15, 1915	
Barrick Resources			
	Canadian Mining, Oil and Gas News	Feb. 02, 1985	
Barrick Resources			
	The Northern Daily News	Jun. 18, 1985	Aug. 18, 1986
Barrick Resources			
	The Northern Miner	Jul. 19, 1984	Dec. 27, 1984
		Feb. 14, 1985	Feb. 28, 1985
		Mar. 07, 1985	May 02, 1985
		Nov. 25, 1985	Feb. 1986
		Apr. 21, 1986	May 5, 1985
		Jun. 09, 1986	
Bruneau			
	The Northern Miner	Jul. 18, 1985	
Camflo			
	The Financial Post	Jan. 07, 1984	
	The Northern Daily News	no date	Jul. 14, 1984
	The Northern Miner	Dec. 22, 1983	Mar. 01, 1984
Canamax			
	The Northern Miner	Mar. 07, 1985	Jun. 20, 1985
		Jun. 20, 1985	
Coin Lake Gold Mines			
	The Northern Miner		Apr. 26, 1984
Condaka			
	George Cross Newsletter	Mar. 07, 1986	
Core Energy			
	George Cross Newsletter	May 5, 1986	
	The Northern Miner	May 12, 1986	Jun. 16, 1986
Dickenson			
	The Northern Miner	Sep. 30, 1985	Jan. 13, 1986
		Feb. 1986	
Edda Resources			
	The Northern Miner	Feb. 10, 1986	

NEWSPAPER CLIPPINGS FILE

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Glimmer Resources			
	The Northern Miner	Mar. 17, 1986	
Golden Harker			
	The Northern Miner	Mar. 28, 1968	Oct. 28, 1972
		Nov. 01, 1973	Oct. 18, 1978
		1980	Aug. 26, 1982
		Mar. 08, 1984	May 31, 1984
		Aug. 08, 1985	
Kerr Addison			
	The Northern Miner	Oct. 28, 1985	
Kerr Addison (Lenora)			
	The Northern Miner	Mar. 01, 1984	
Lenora			
	The Northern Daily News	Mar. 28, 1985	
	The Northern Miner	Jul. 30, 1981	Jul. 14, 1983
		Sep. 15, 1983	Jan. 26, 1984
		Feb. 09, 1984	Oct. 04, 1984
		Feb. 21, 1985	Mar. 07, 1985
		Jun. 20, 1985	Oct. 28, 1985
		Oct. 28, 1985	May 05, 1986
		Jun. 23, 1986	Jul. 07, 1986
	Petroleum & Mining Reviews	May 1983	
	Western Canadian Investments	Aug. 18, 1986	
Mary Ellen			
	George Cross Newsletter	Mar. 29, 1985	
Merrex			
	The Northern Miner	Feb. 26, 1948	
Munro			
	The Northern Miner	Jul. 13, 1957	
Newmex			
	The Northern Miner	May 22, 1975	Aug. 09, 1984
Noblemet			
	North American Gold Mining Industry News	Mar, 14, 1986	
Northland			
	The Northern Miner	Apr. 19, 1951	May 10, 1951
Perrex			
	The Northern Miner	Jan. 11, 1984	Feb. 21, 1985
		Mar. 24, 1986	Apr. 14, 1986

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Sciminex			
	The Northern Miner	May 31, 1973	Jul. 07, 1976
Teddy Bear Valley Mines			
	The Northern Miner	Jan. 09, 1947	May 22, 1947
Toronto Harker			
	The Northern Miner	Jan. 20, 1986	
Tumac Mining			
	The Northern Miner	Nov. 17, 1960	
Vanstates			
	George Cross Newsletter	Aug. 05, 1986	
Win Eldrich			
	The Northern Miner	no date	

GEOF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched: Harker Tp., Lightning River gold area, Cochenour g.m., Cragg g.m., Harker g.m., Hurst g.m., McDonald g.m., Perron g.m.

Index Volume	Listing:	Report Volume	Part	Page
2	Harker Tp., Coch.			
	see also Lightning River gold area	38	2	2
	Access to	28	2	44
	Gold			
	see also Cohenour g.m.			
	Cragg g.m.			
	Harker g.m.			
	Hurst g.m.			
	McDonald g.m.,			
	Perron g.m.			
	claims discovered	34	6	94,95
	discovery	34	6	86
	prosp.	31	10	30
	hints as to	34	6	93
	quartz veins	29	6	93
	effect on, of diabase	34	6	98
	Name, reason for	28	2	45
	Ore minerals	34	1	86
	Rocks, lava	29	3	20,68
	photo	34	6	90-93
	porphyrite	34	6	90
	syenite	28	2	19,20
	see also above Gold, quartz veins	28	2	34,44
	Section across (vertical) see map 34a in pocket	34	6	
	Topography, block diagram and photo, showing	34	6	86,87
	Harker Gold Mine, Harker Tp.			
	see also Harker Gold Mines Ltd.			
	Development, values	34	6	1
	Geology	34	1	86
	see also map 28b with 28(2)	34	6	87,88
	Operations	34	1	85,86
		35	1	103
	Photo	34	6	88
	Plan see map 34a in povket, 34(6)			
	Rocks	34	6	89
	block diagram	34	6	86
	porphyry, analysis and photo	34	6	89
	see also map 34a with 36(6)			
	Section from, to Ghost Range. see map 34a in pocket 34(6)			
	veins, notes	34	6	88
	Harker Gold Mines Ltd.			
	see also Harker g.m.			
	Incorporated	34	1	55
	Officers	35	1	103

ODM GENERAL INDEX SEARCH

Words searched: Harker Tp., Lightning River Gold Area, Cochenour Gold Mines, Cragg Gold Mines, Harker Gold Mines, Hurst Gold Mines, McDonald Gold Mines, Perron Gold Mines

Index Volume	Listing:	Report Volume	Part	Page
2	Lightning River Gold area, Coch.			
	see also Harker Tp., Holloway Tp.			
	Gold, discovery	28	2	44
		30	2	4,29
	in rhyolites	30	2	8
	mining reports	32	6	66,67
		34	1	85,86
	Map, sketch, in pocket 34(6)			
	Report by Gledhill	34	6	86-98
	Knight	33	3	41-49
	Lightning River Gold Claims, Holloway, Harker and other Tps.			
	Discovery	28	2	44
	and plans	31	7	21,22
	Fault	34	6	95
	Operations	31	10	30
		34	6	95
	Rocks	34	6	95
	lava flows	33	3	43
	Lightning River Gold Mines Ltd.			
	Capital and date of charter	30	1	48
	Officers	31	10	30
	McDonald Gold Claim, Harker Tp.			
	Gold values, rhyolite	28	2	50
	Perron Gold Claim, Harker Tp.			
	Pleistocene deposits	28	2	39
	Rhyolite, values	28	2	51
	Cochenour Gold Claim, Harker Tp.			
	Mineralisation, rocks	28	2	49
	Cragg Gold Claim, Harker Tp.			
	Rhyolite,, notes and photo	28	2	50,51

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched: Harker Tp., Harker g.m.
Teddy Bear Valley Mines
Perron, A.J.

Index Volume	Listing:	Report Volume	Part	Page
3	Harker Tp., Coch.			
	Gold mg.			
	see Harker g.m.			
	Teddy Bear Valley Mines			
	Rocks	37	3	18,26
	see also map 37g with	37	3	
	Harker Gold Mine, Harker Tp.			
	Operations (1928)	38	1	107
	Operations (1936)	46	1	77
	Harker Gold Mines Ltd.			
	Capital; officers; operations	38	1	107
	Exploratory work, Uchi g.m.	47	1	227
	Teddy Bear Valley Mines Ltd.			
	Capital; operations	44	1	147
		45	1	166
	Incorporated	39	4	15
4	Harker Tp., Coch.			
	Gold claims	58	4	29
	Rocks	58	4	9
5	Harker Tp., Coch.			
	Geology, report on, with map by J. Satterly	60	7	
	Nickel-Chromium	60	8	57
	Harker Gold Mines Ltd.			
	Property, report, plan and section	60	7	30-33
	Teddy Bear Valley Mines Ltd.			
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	Report, plan and section	60	7	41-43
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	Perron, A.J.			
	Gold claims, Harker Tp.			

ODM GENERAL INDEX SEARCH

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Teddy Bear Valley Mines
Perron, A.J.
Golden Harker Explorations

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	Golden Harker Exporations Ltd.			
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8	Harker Tp., Cochrane Dist.			
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9	Harker Tp., Cochrane Dist.			
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HARKER TOWNSHIP

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Gordon, J.B.	1977	Gold Deposits of Ontario, East Central Sheet	OGS Map P.1228	1:1 013 760
Gordon, J.B.	1980	Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P.2300	1:1 013 760
Guillet, G.R.	1977	Clay and Shale Deposits of Ontario	OGS Map 2358 (MDC 15)	1:200 000

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Pyke, D.R., Ayres, L.D. Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440
Robertson, J.A.	1976	Mineral Potential Map of Ontario, East Central Sheet	ODM Map P.1099	1:1 013 760
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OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Noranda-Rouyn, NTS 32D/W	OGS Map 80 322 GSC Map 35432G	1:250 000
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OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/K Ratio, Noranda-Rouyn, NTS 32D/W	OGS Map 80 324 GSC Map 35432G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eTh/K Ratio, Noranda-Rouyn, NTS 32D/W	OGS Map 80 325 GSC Map 35432G	1:250 000
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NOTES AND ADDENDA

YEAR	ROLL	FLIGHT LINE	PHOTOS
1946	217	65	25 to 31
	218	66	41 to 49
	218	67	30 to 37
	216	68	105 to 111
	216	68,69	10 to 13
	219	69	35 to 41
1971	4820	15	19 to 25
	4821	44	10 to 16
	4822	15	144 to 150
Unknown	963	3	43 to 49
	963	4	73 to 78
	967	5	105 to 110
	968	6	38 to 43
	968	7	81 to 86
	969	8	19 to 25

LAMPLUGH TOWNSHIP

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

Ontario

Ministry of Northern Development and Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 358

(Map 1 of 3)

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

48 32 00

79 47 00

79 52 00

Thackeray Cr.

Ghost Cr.

Reeves L.

Imperial Oil L.

Horker L.

Montgomery River

Mattagami River

101

78

37 63 66 68 70 53 64 62 46 48 69 65 54 39 42 45 44 55 40 49 43 59 57 67 56 50 60 51 61 41 71

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 358

(Map 1 of 3)

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

ELLIOTT TOWNSHIP

101

Thackeray Cr.

Ghost River

Regess L.

Imperial OL

Harker L.

Mattawasagi River

79 52 00

48 27 30

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

x ④ Small area exploration.

LAMPLUGH TOWNSHIP

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 358

(Map 2 of 3)

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

48 32 00

79 47 00

79 52 00

48 27 30

Thackeray

Ghost

Reeves L.

Imperial OL.

Harker L.

Mollowassagi

101

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 368

(Map 2 of 3)

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

ELLIOTT TOWNSHIP

101

Thackeray

Ghost

Reeves L.

Imperial L.

Harker L.

Mollowosogi

48 27 30

79 52 00

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number
- Geochemically-defined anomaly; trend and anomalous element.

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly (VL - Vertical loop; HL -Horizontal loop; VLF - Very low freq; Turam; JEM - Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching,pit, property no.
- Adit
- Rock quarry
- Sand and/or gravel pit

LAMPLUGH TOWNSHIP

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

48°32 00

79°47 00

79°52 00

101

Thackeray

Ghost

Reeves

Imperial

Harker

Hollingsworth

River

TYPES

LAMPLUGH TOWNSHIP

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

48°32 00

79°47 00

79°52 00

101

Thackeray

Ghost

Reeves

Imperial

Harker

Holloway

River

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 358

(Map 3 of 3)

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter and horizontal projection to surface.
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number

- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number
- Geochemically-defined anomaly; trend and anomalous element.

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL -Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching,pit, property no.
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

ELLIOTT TOWNSHIP

79°52 00

48°27 30

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 358

(Map 3 of 3)

HARKER TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GARRISON TOWNSHIP

HOLLOWAY TOWNSHIP

ELLIOTT TOWNSHIP

79°52 00

48°27 30

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter and horizontal projection to surface.
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number